

Cometary Chip 3

Track 2

Images

Aerogel Cell:
From unknown cell

Aerogel Chip:

Track and Grains:

Microtomed samples (3 grains):
[Frag12particle_2,2,1sample_original.pdf](#)

[2,2,0_microtome_sections.pdf](#)

[Frag12_particle3_microtomed_sections.pdf](#)

Track History:

Chip 3 was found on the surface of the canister upon opening, and has not been tied to a specific cometary cell. 3 terminal grains from this track were removed by M. Zolensky, and embedded in epoxy and microtomed by K. Messenger.

Track Characteristics:

Type: carrot with terminal grains (Grains 1-3)

Length: ~400 μ m

Grain 1 diameters ~9 μ m each

Allocation History

Results

Grain 2

Bridges [SEM]: Aerogel mainly

Simon [TEM]: Vesiculated, with nanophase FeNi and FeNi sulfide grains in a Mg-silicate host. High TiO₂ phase.

Stefan [TOF SIMS]: Li, Mg, P, Ca, Ti, V, Cr, Mn, Ni are clearly chondritic. Na, K, Rb, B, Si, O, Cl diverse types of contamination.

Grain 4

Aleon [Presumably SEM]: Could not find particles on Si wafer

Data Files: Not available yet